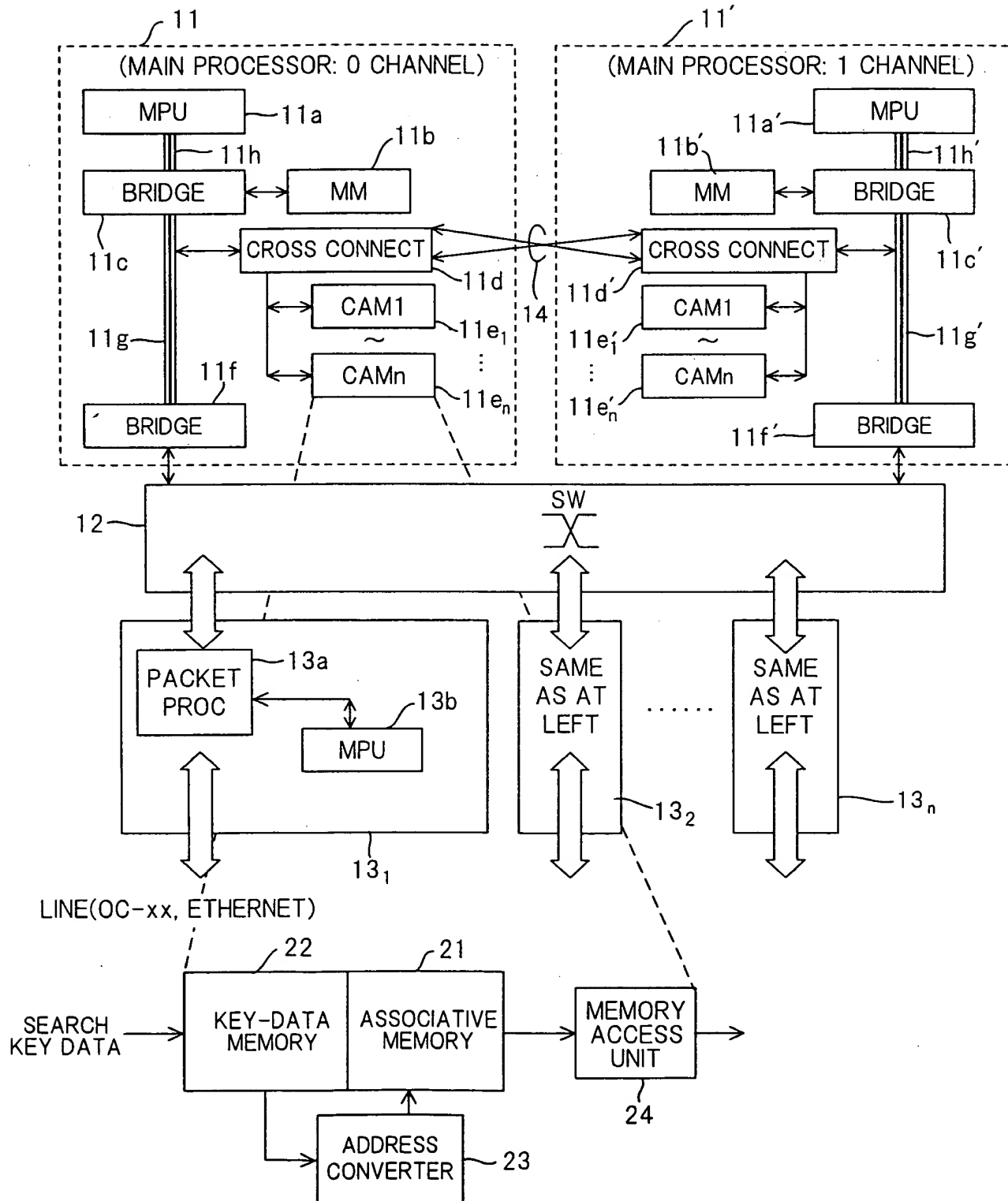


FIG. 1



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FIG. 2A

TRANSMISSION OF OC-12C PPP PACKET

ITEMS	VALUE	IP DATA FLUCTUATION	TOTAL TRANSFER TIME(μ S)
OC-12C TRANSFER TIME	1.6	1	0.36
PPP + FIXED PART OF IP HEADER (bytes)	27	2	0.37
IP DATA FLUCTUATION (bytes)	n	3	0.39
		4	0.40
TOTAL TRANSFER TIME = (n + PPP + FIXED PART OF IP) * OC-12C TRANSFER		~	~
		10	0.48
		~	~
		64	1.17
		~	~
		128	1.99
		~	~
		1024	13.52
		~	~
		1500	19.64

FIG. 2B

TRANSMISSION OF OC-192C PPP PACKET

ITEMS	VALUE	IP DATA FLUCTUATION	TOTAL TRANSFER TIME(μ S)
OC-192C TRANSFER TIME(ns)	0.1	1	0.02
PPP + FIXED PART OF IP HEADER (bytes)	27	2	0.02
IP DATA FLUCTUATION (bytes)	n	3	0.02
		4	0.02
TOTAL TRANSFER TIME = (n + PPP + FIXED PART OF IP) * OC-192C TRANSFER		~	~
		10	0.03
		~	~
		64	0.07
		~	~
		128	0.12
		~	~
		1024	0.84
		~	~
		1500	1.23

FIG. 3

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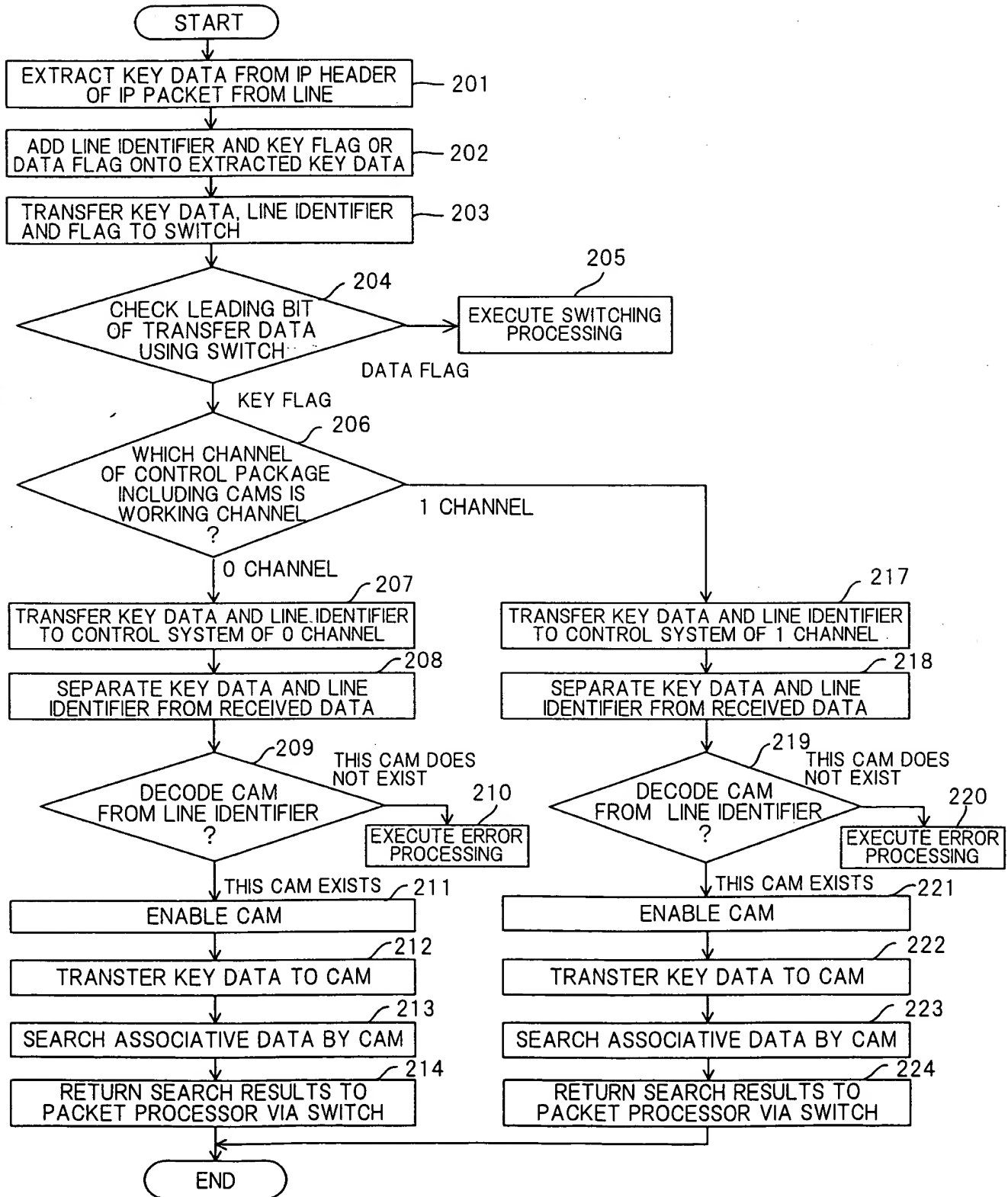


FIG. 4A

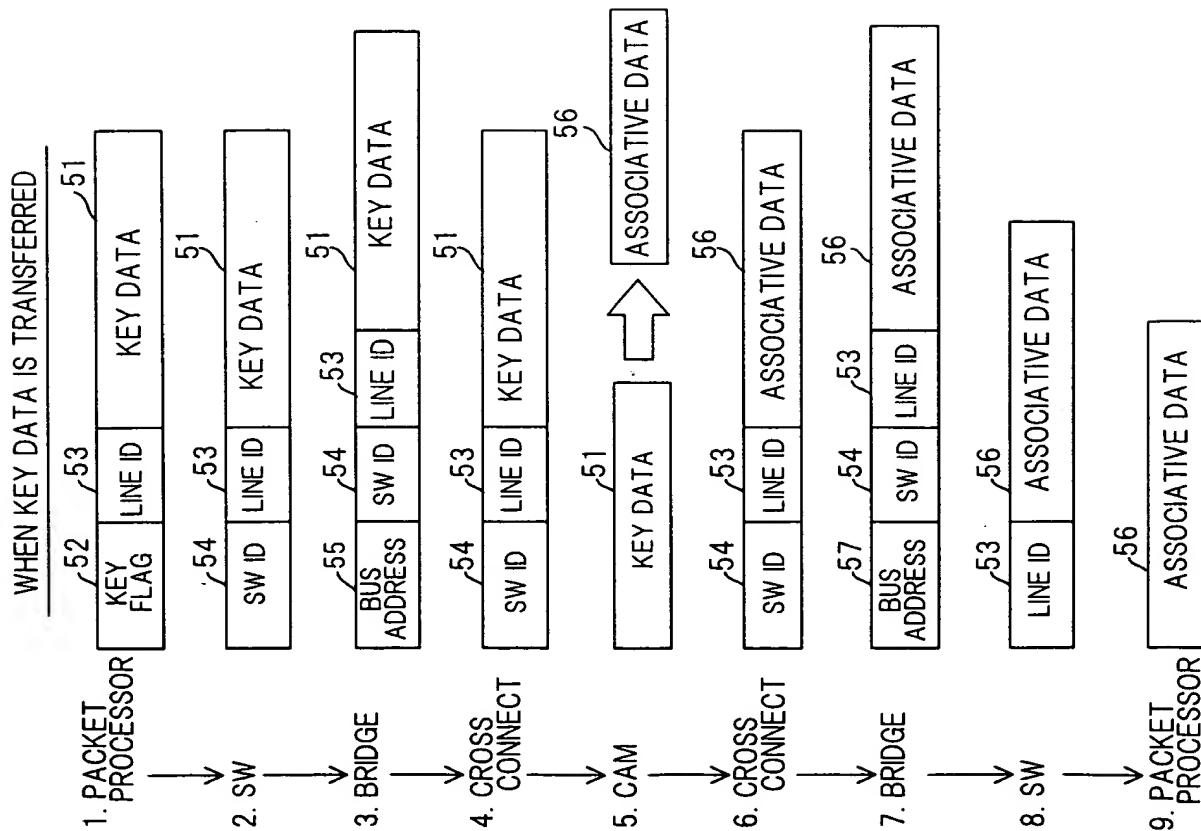


FIG. 4B

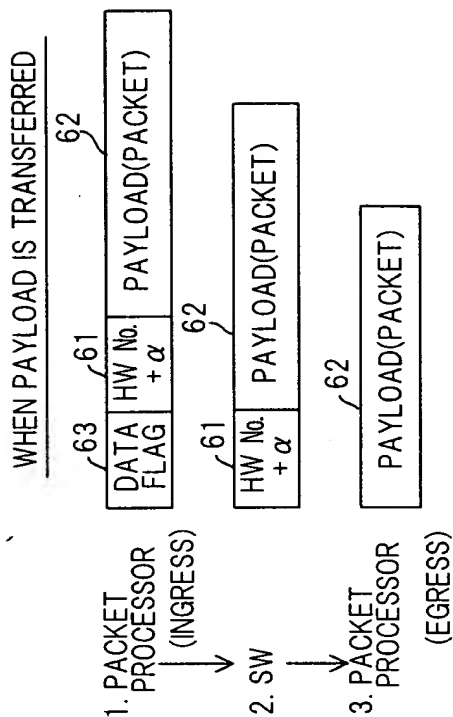


FIG. 5

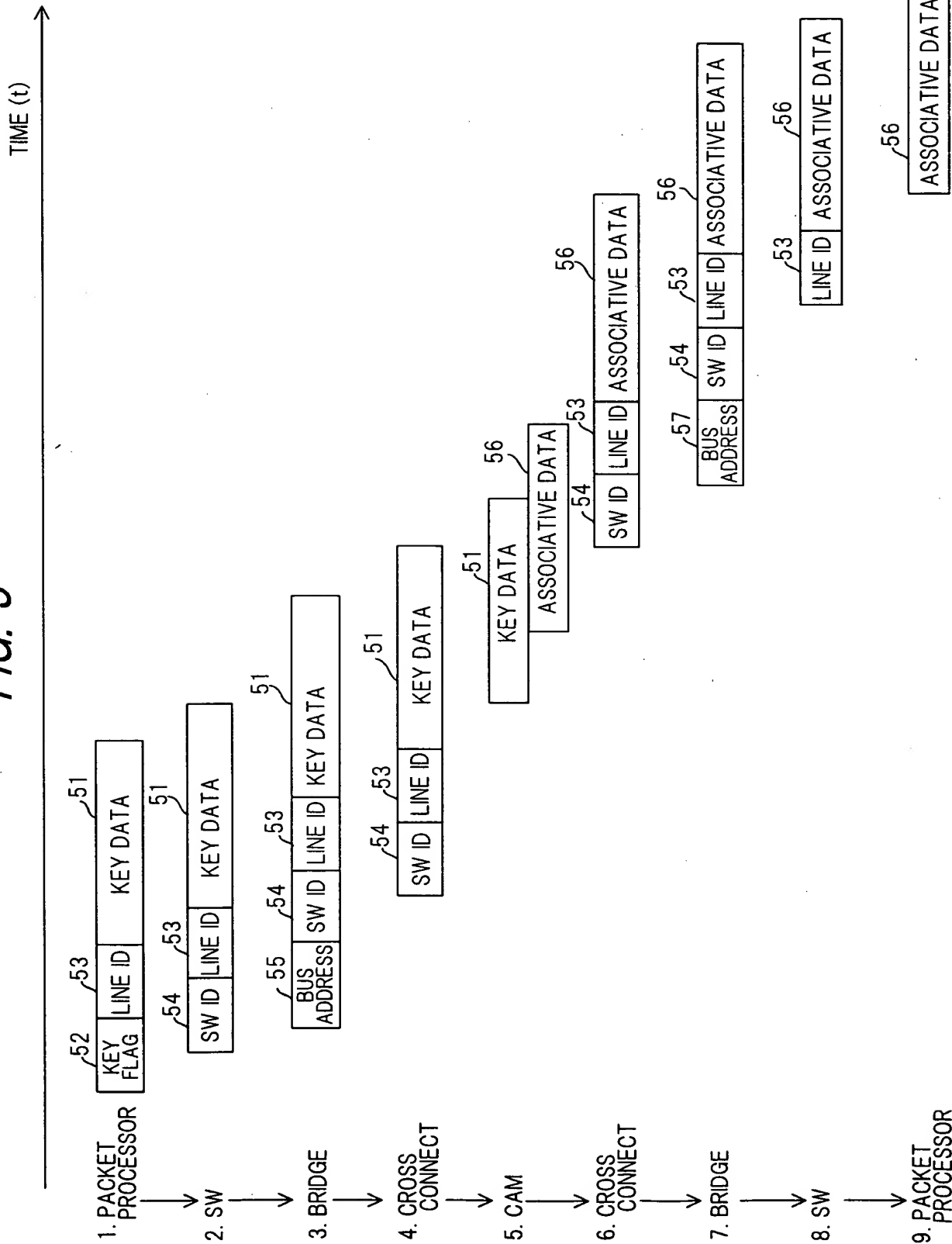


FIG. 6

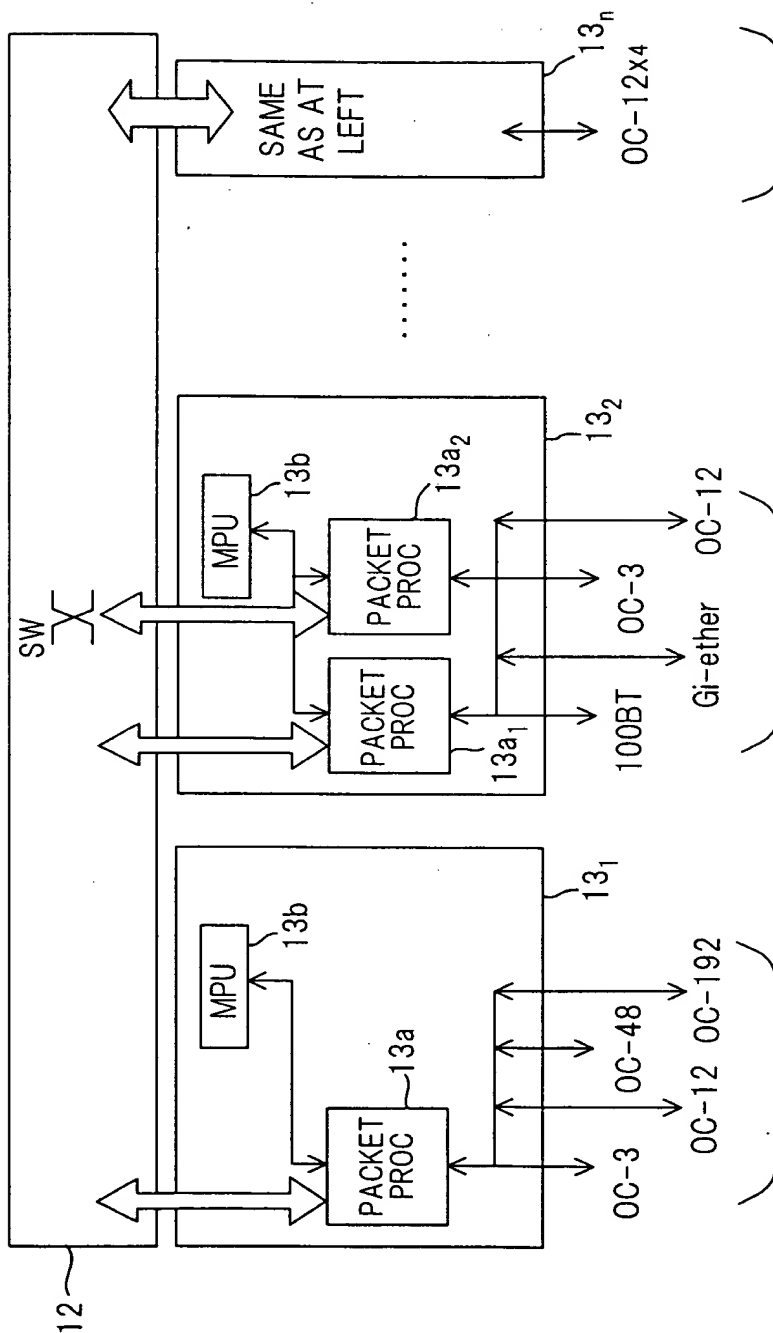


FIG. 7

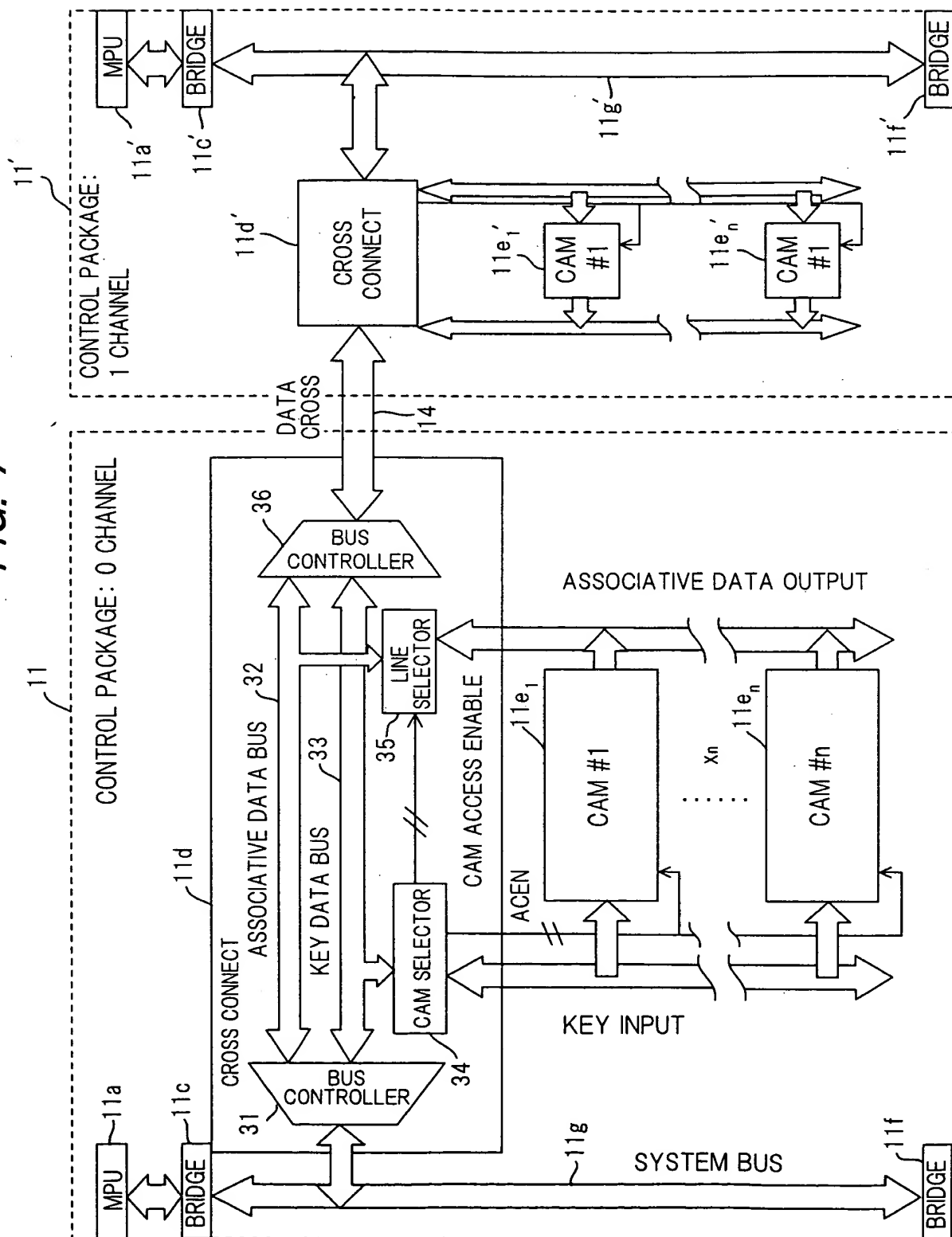
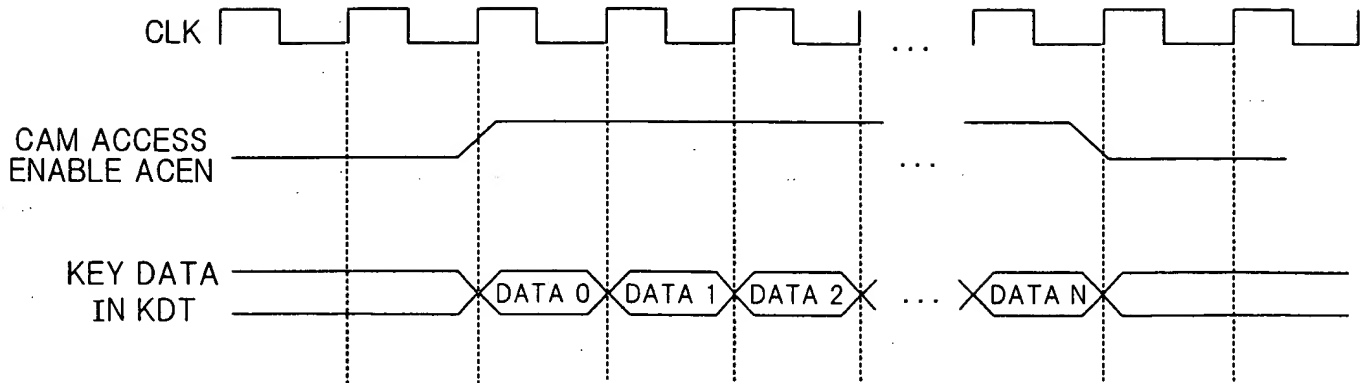


FIG. 8*FIG. 11*

RAM CELL WIDTH (bytes)		1	1
RAM CELL WORD COUNT	y	1,000	16,384
KEY DATA WIDTH (bytes)	k	4	16
ASSOCIATIVE DATA WIDTH (bytes)	r	2	2
TOTAL ENTRY COUNT		↓	↓
$e = y / (k + r)$	=	167	910

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FIG. 9

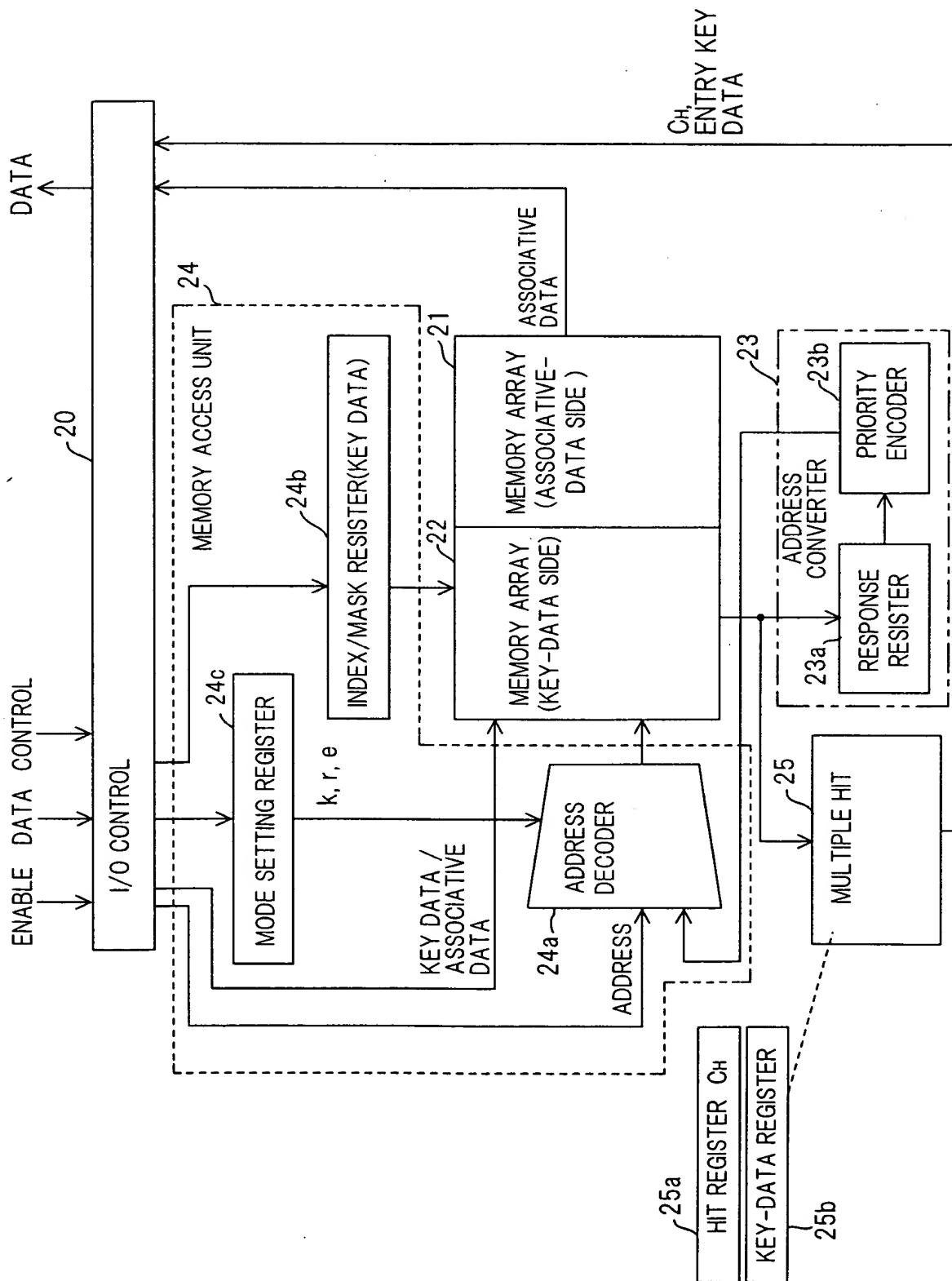


FIG. 10

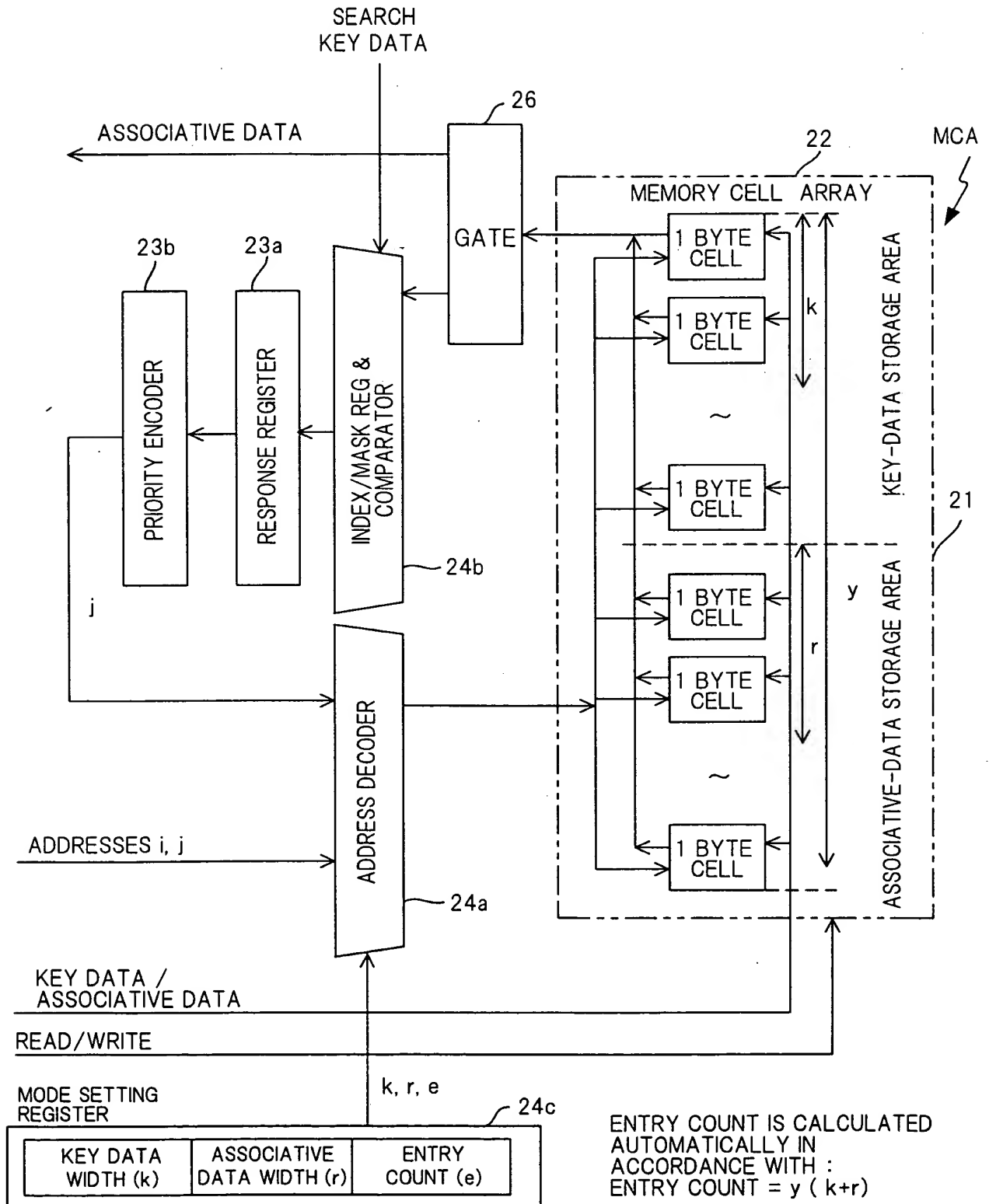


FIG. 12

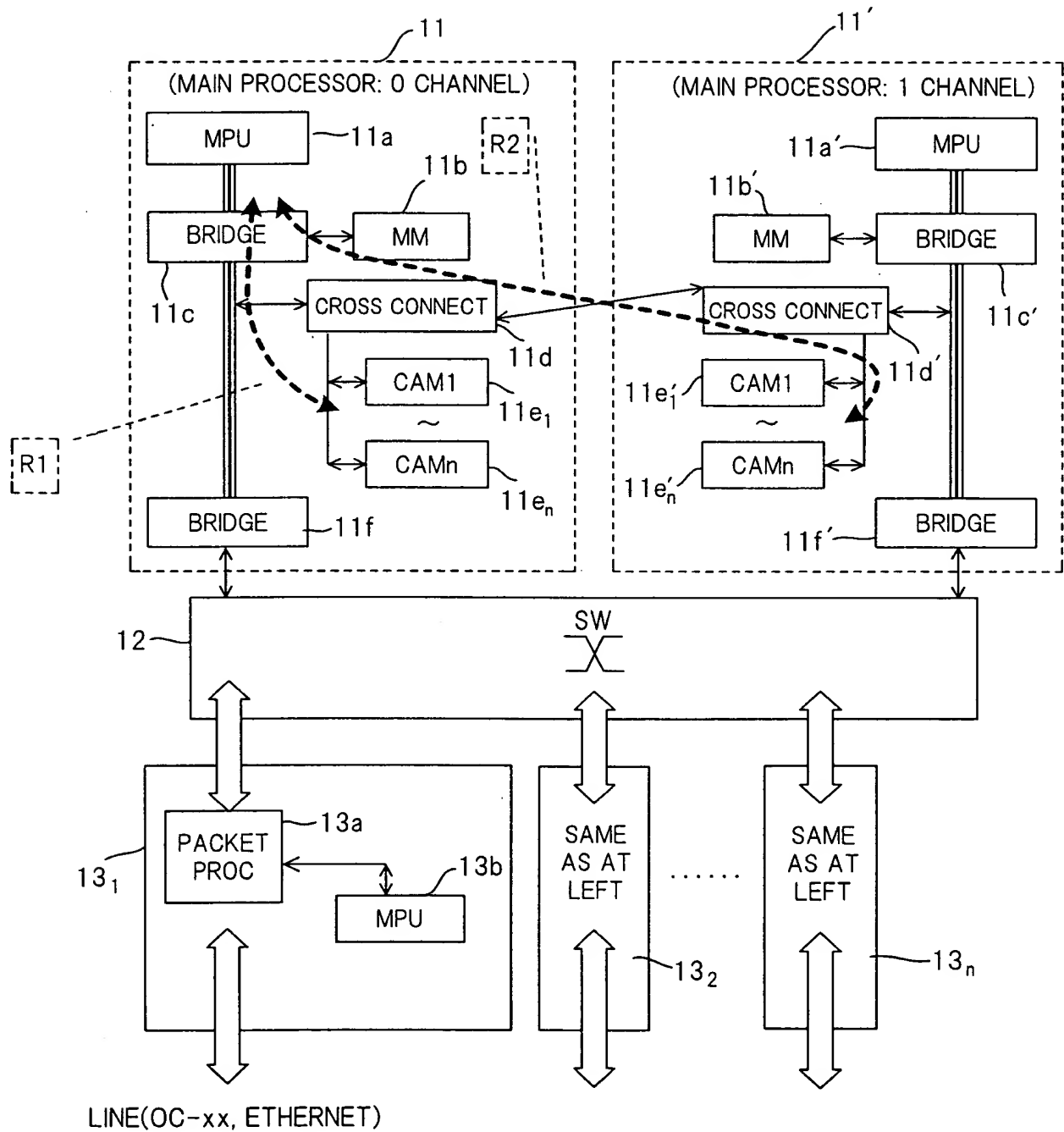
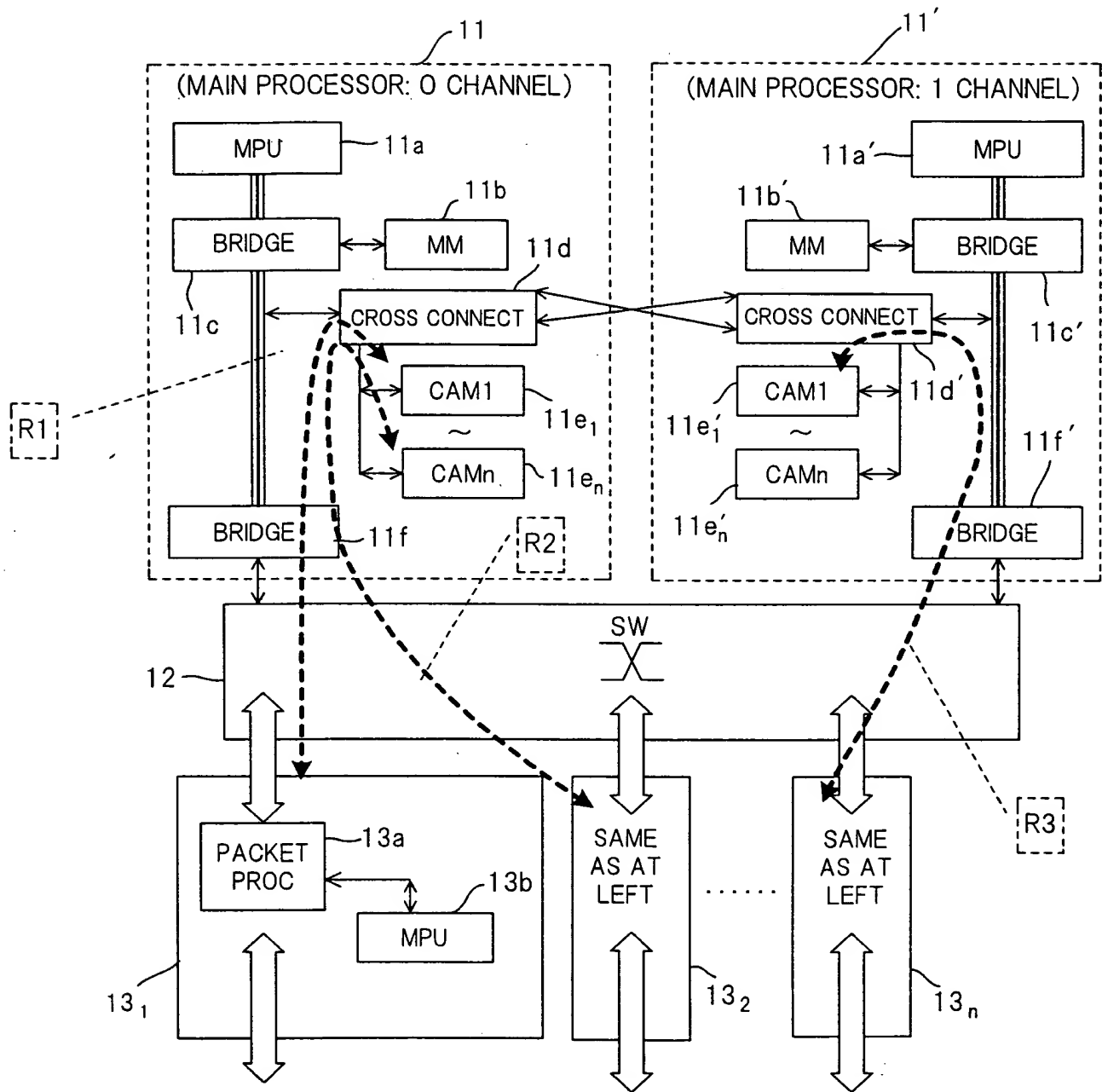


FIG. 13



LINE(OC-xx, ETHERNET)

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FIG. 14

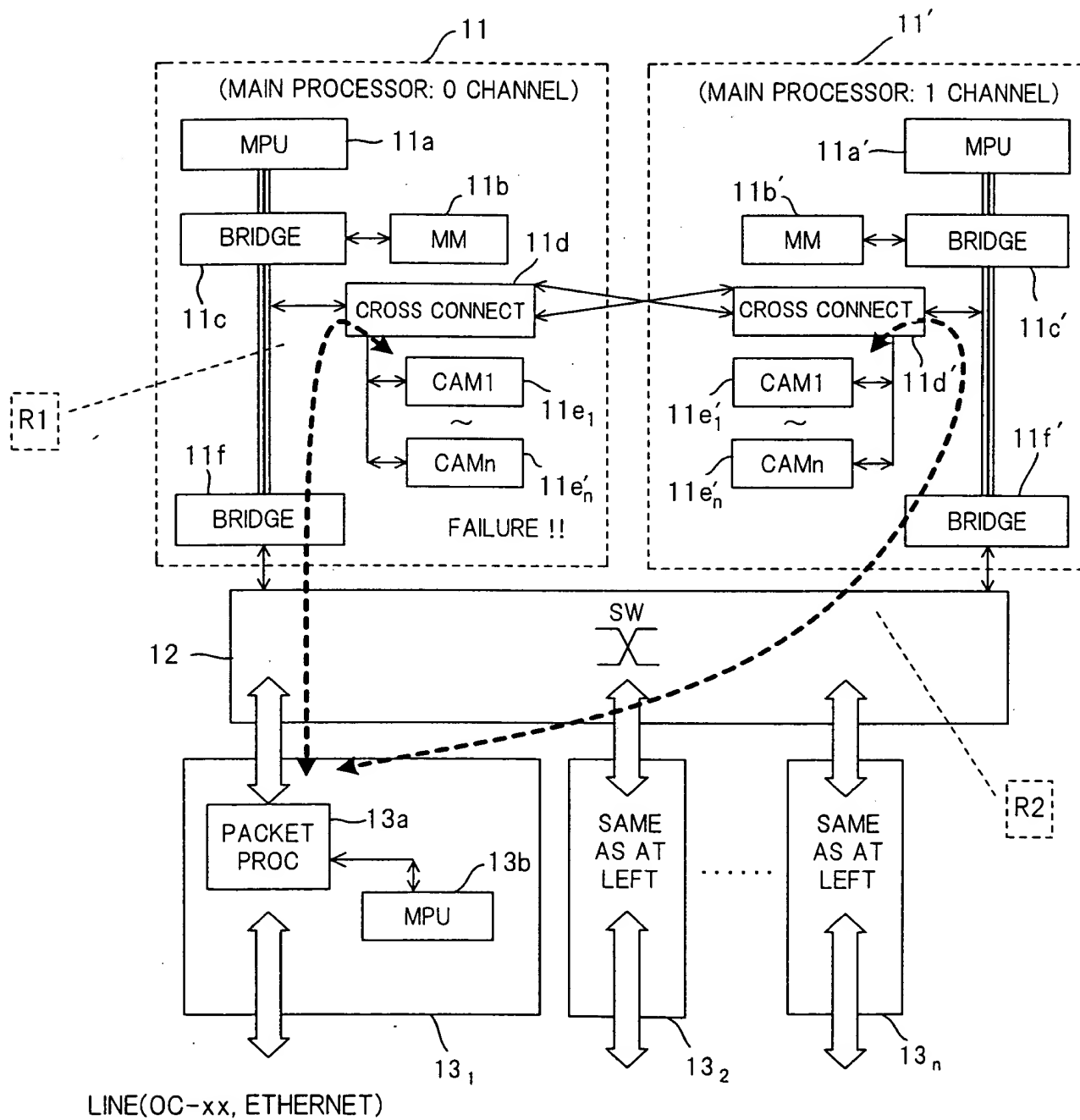


FIG. 15 PRIOR ART

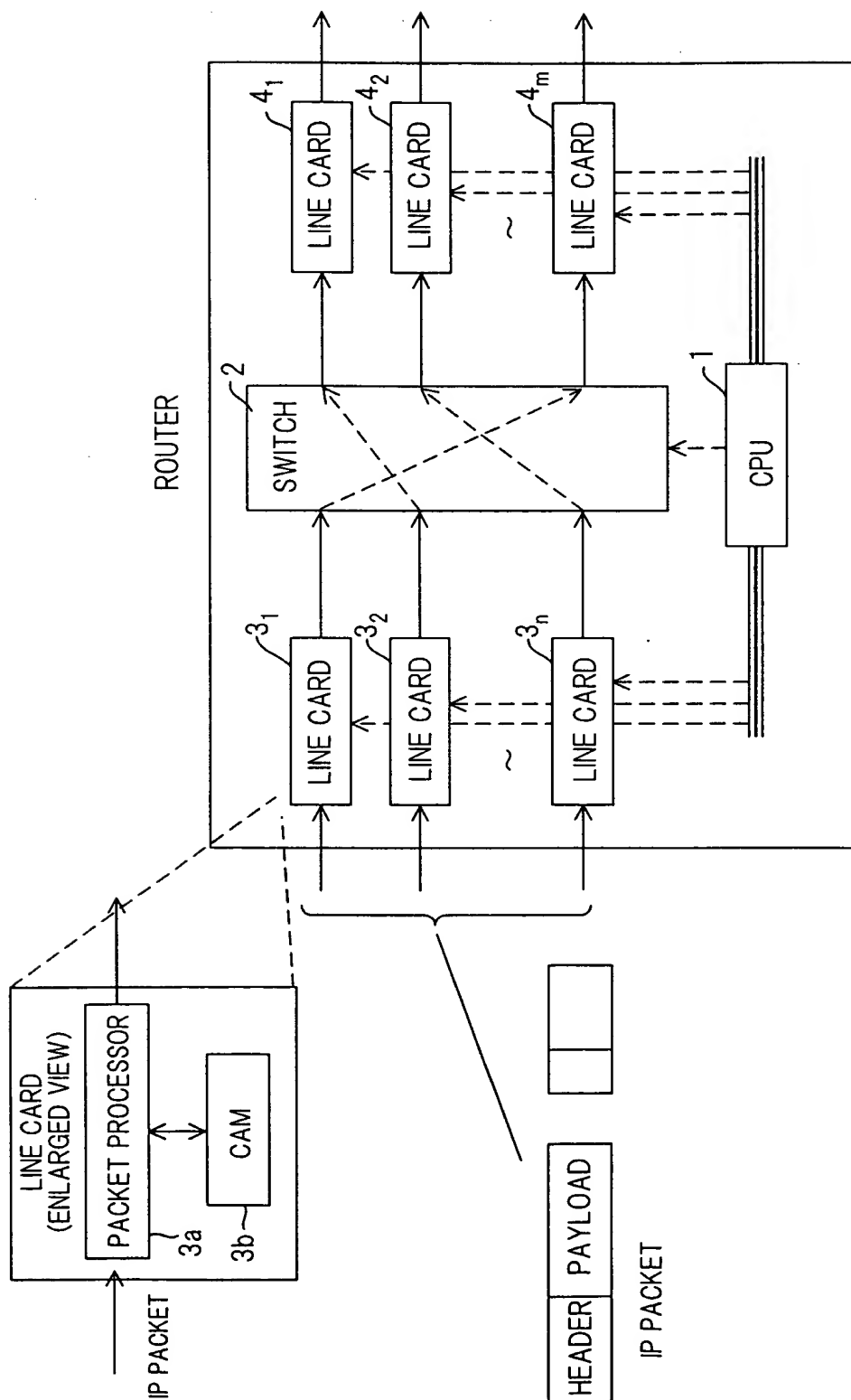


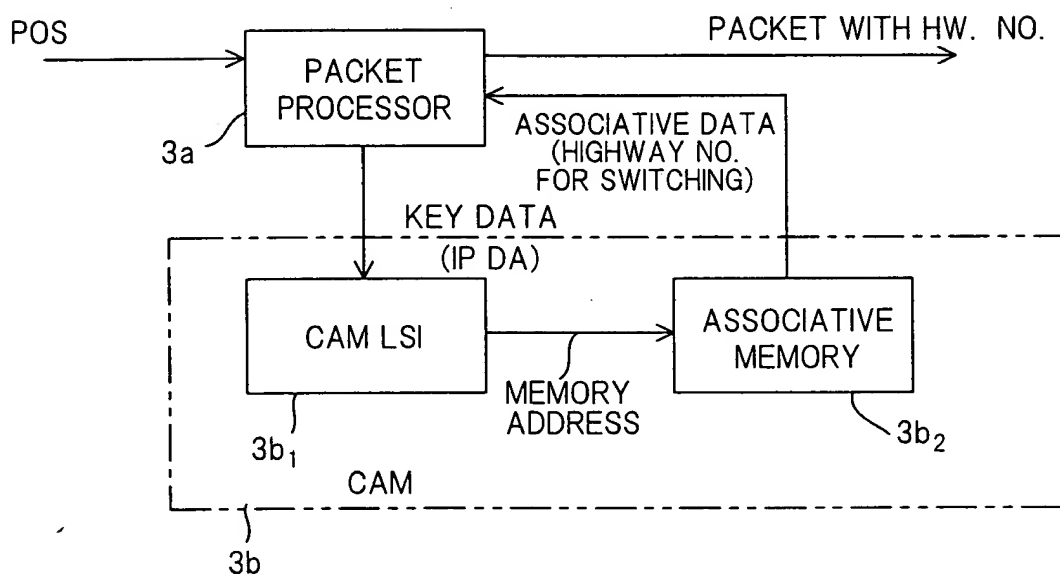
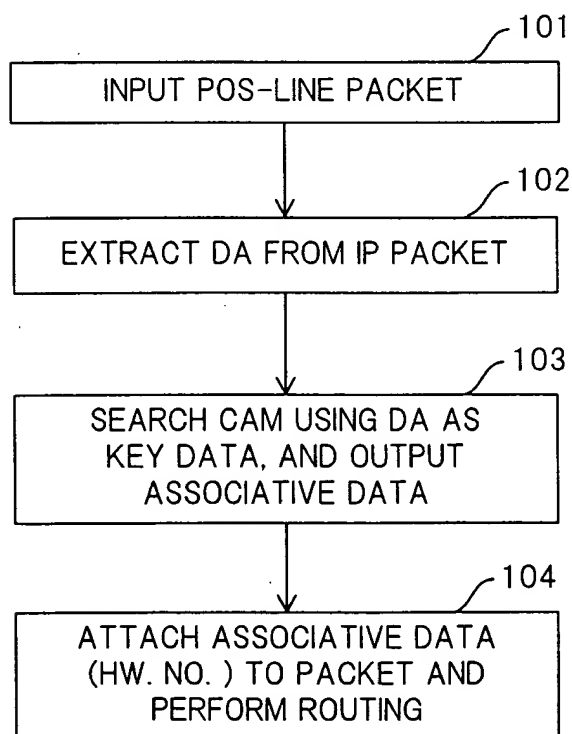
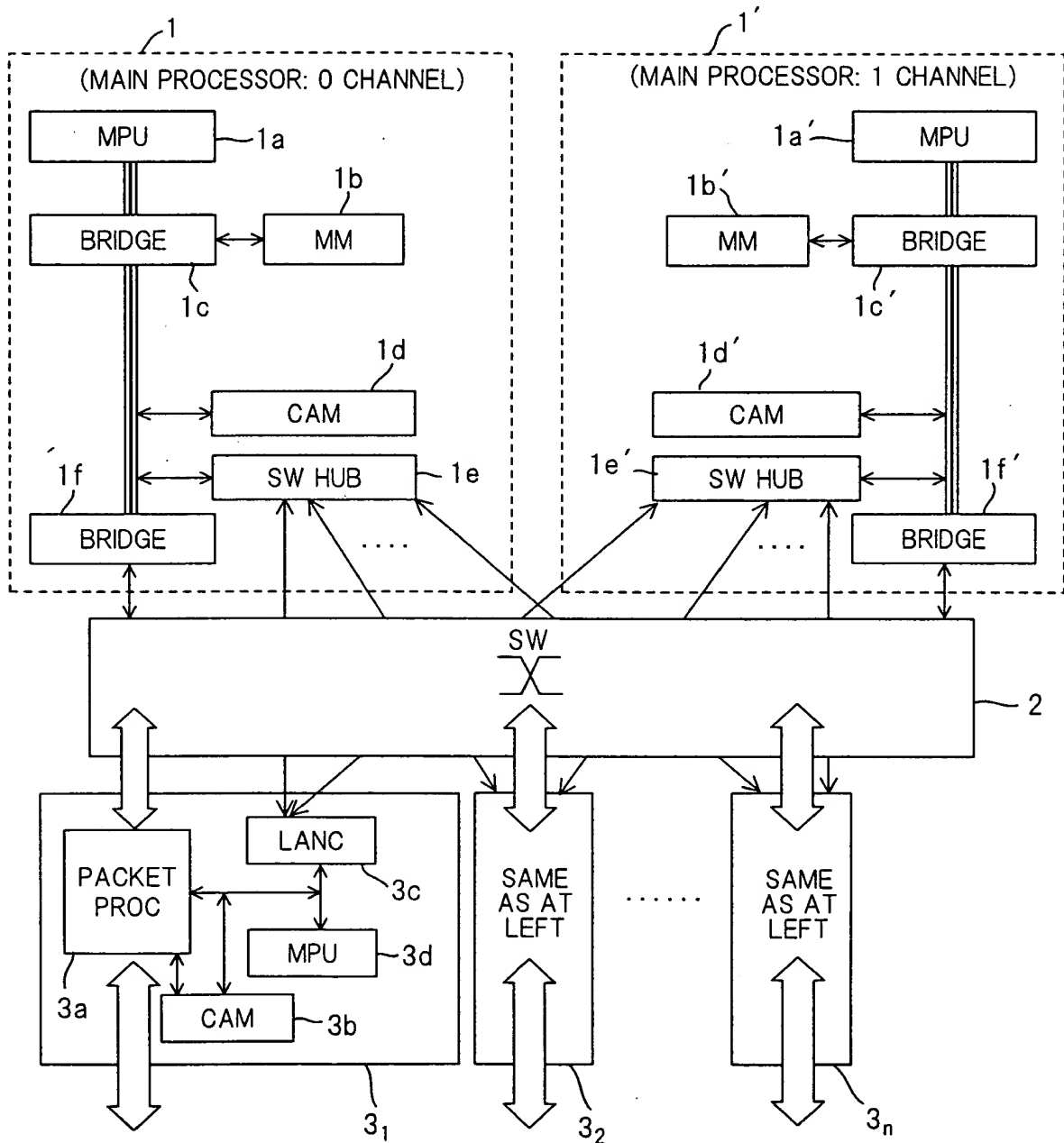
FIG. 16 PRIOR ART*FIG. 17 PRIOR ART*

FIG. 18 PRIOR ART

LINE(OC-xx, ETHERNET)

09757302.012001

10E210" 20E29260

FIG. 19 PRIOR ART

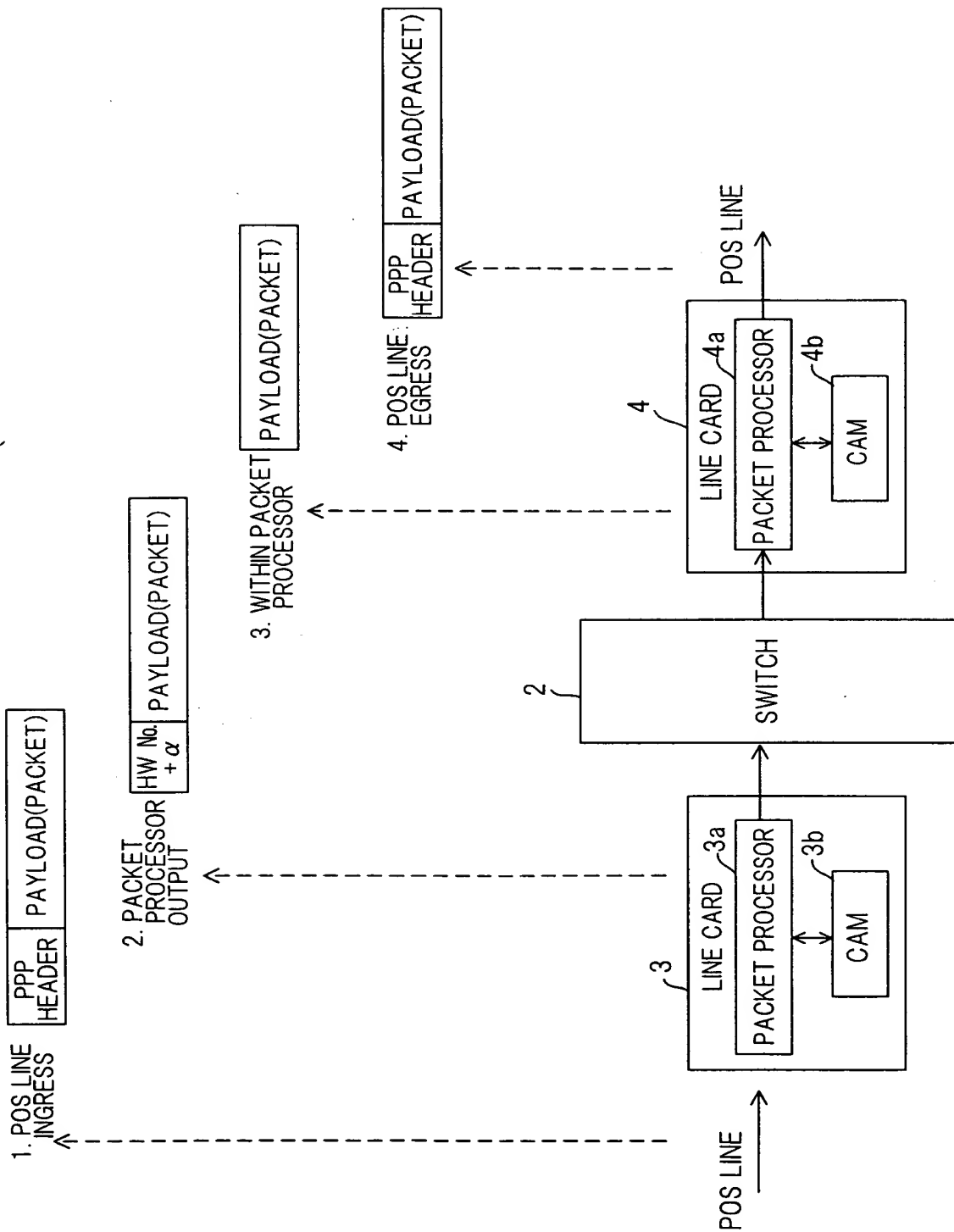


FIG. 20 PRIOR ART

